

FIGURE 1

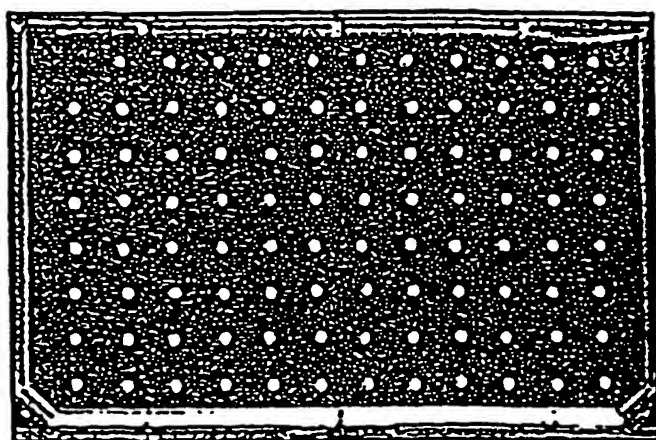
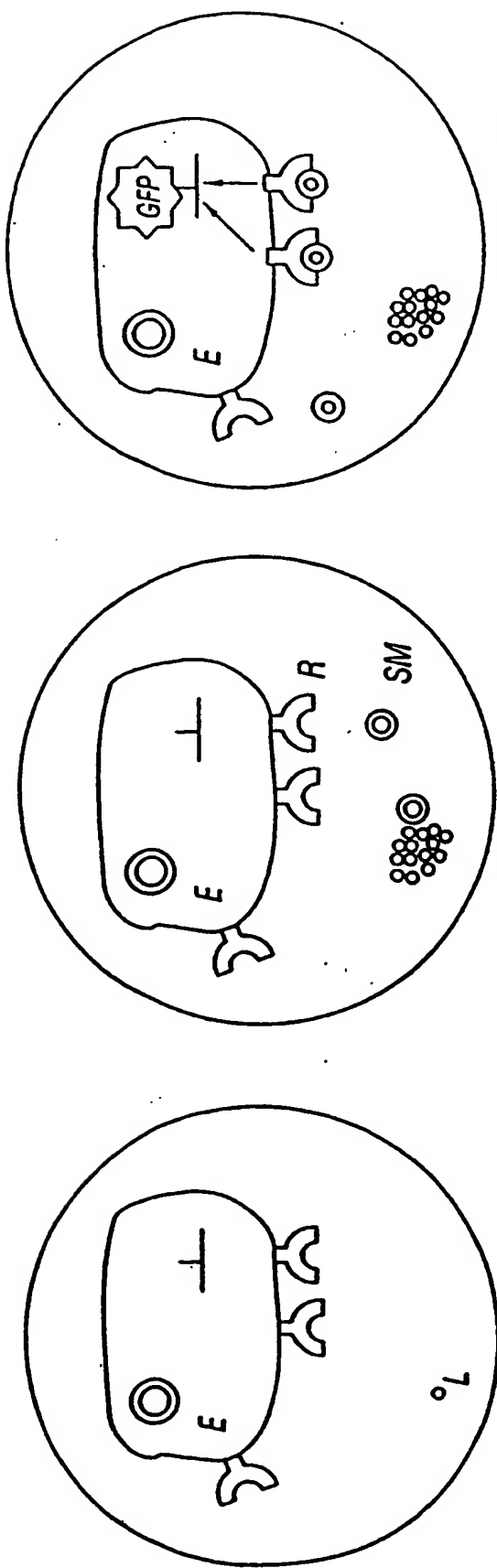


FIGURE 2



*Receptor binding of small molecule & GFP reporting*

*Growth and expression of small molecule from host*

*Co-encapsulation Library + Eukaryote*

E=Eukaryotic assay organism	L=Large insert library	SM=Small molecule
GFP= Green fluorescent protein	R=Eukaryotic receptor	

FIGURE 3

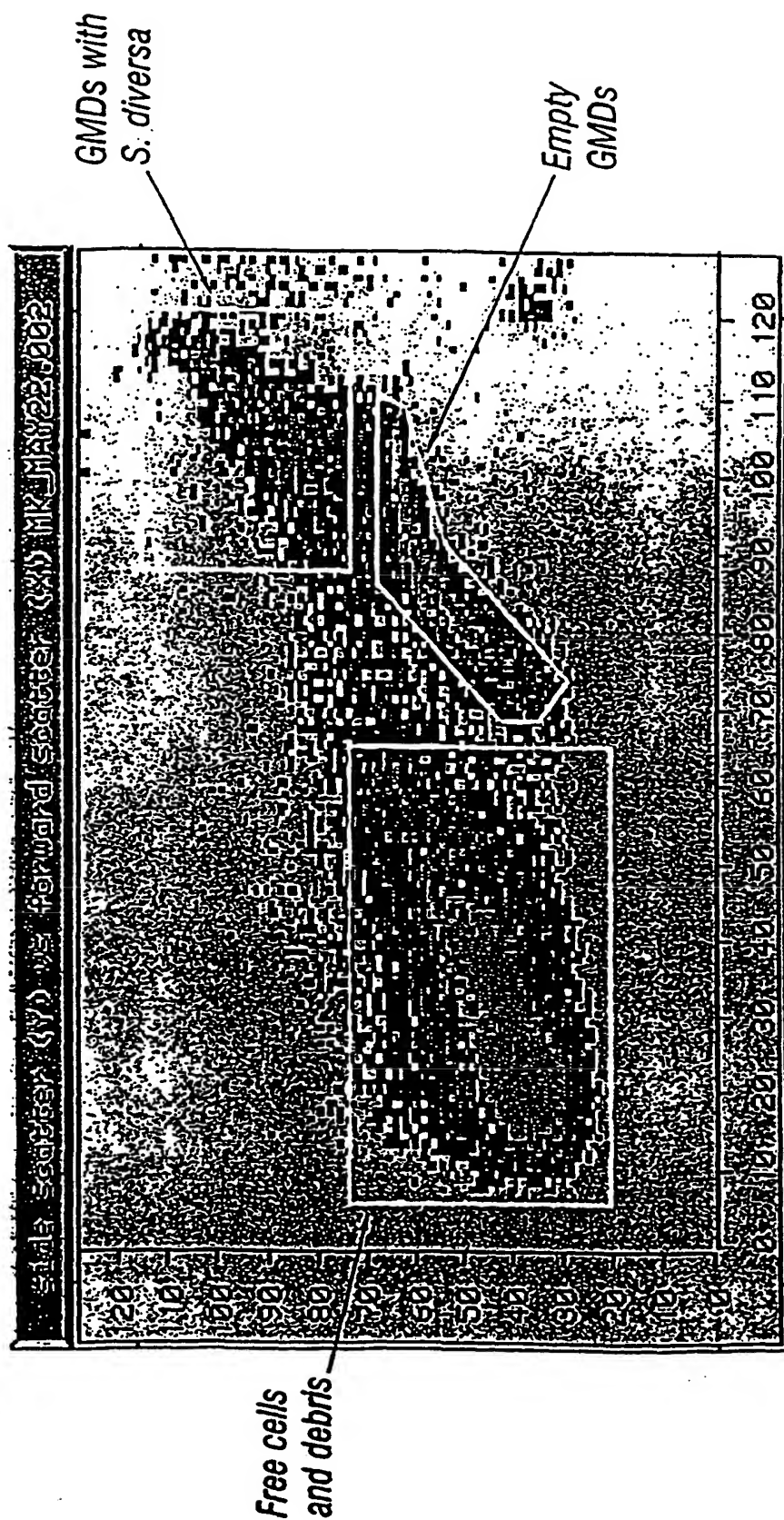


FIGURE 4

# Whole Cell Hybridization Protocol (+ control)

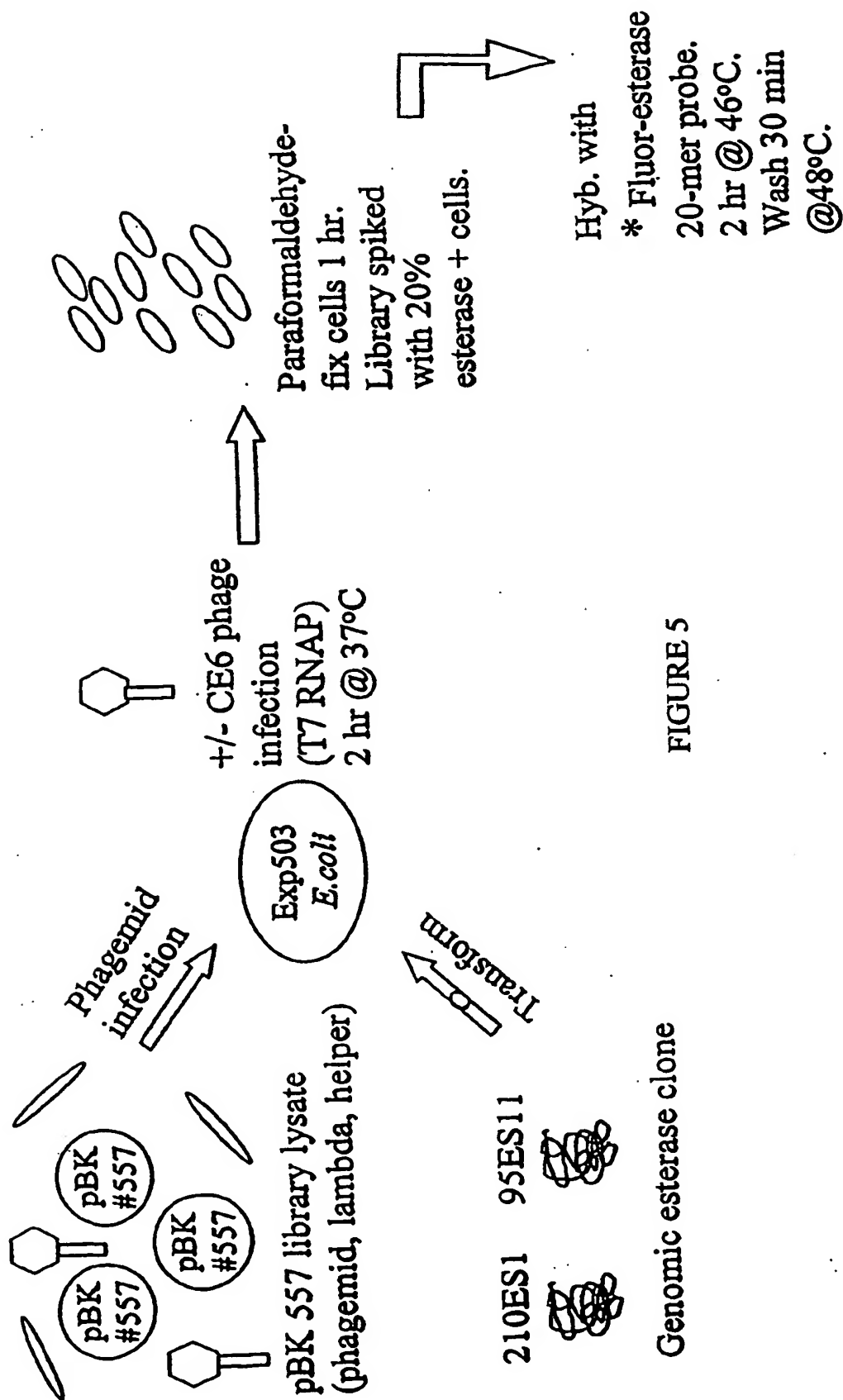


FIGURE 5

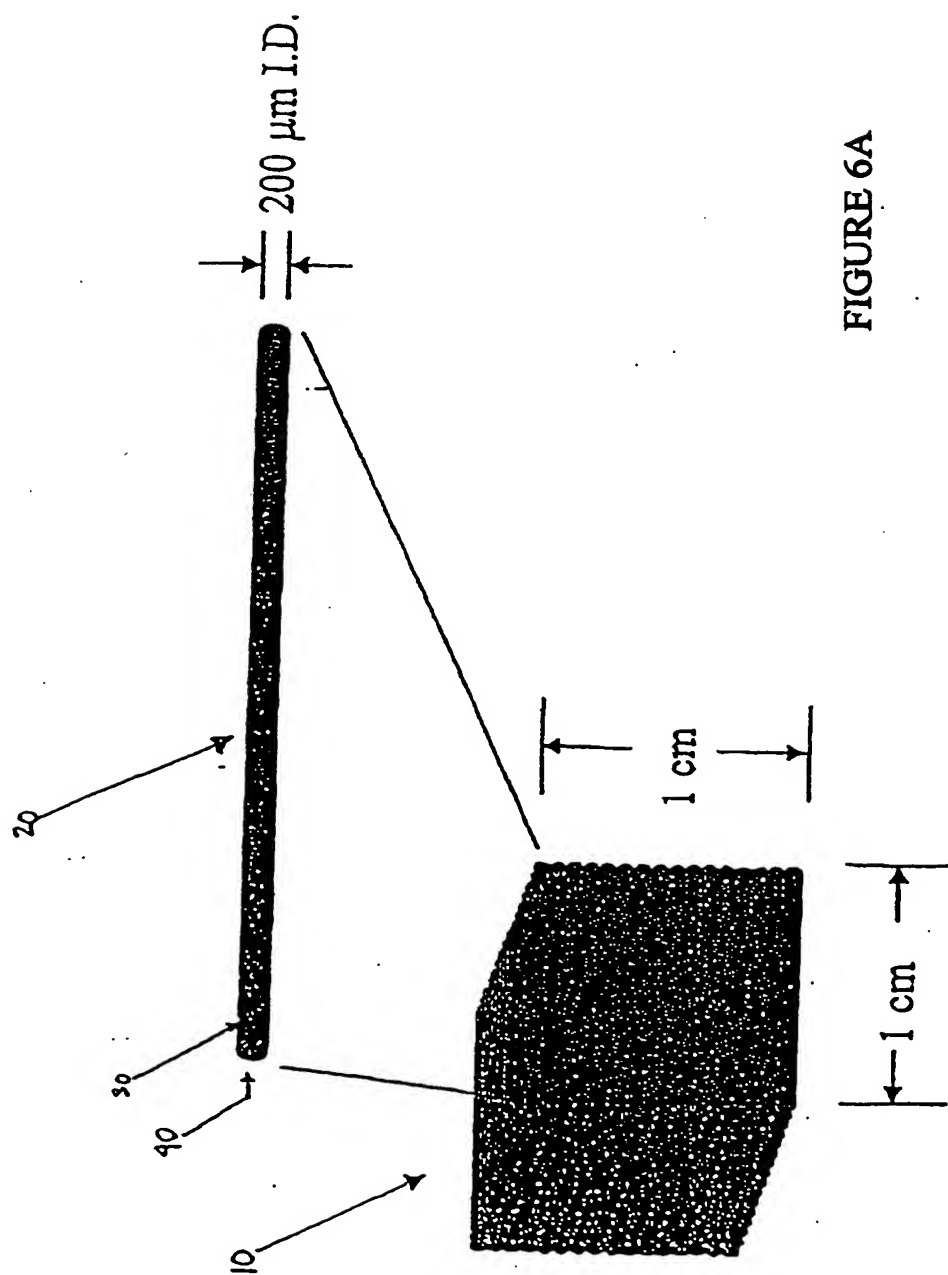


FIGURE 6A

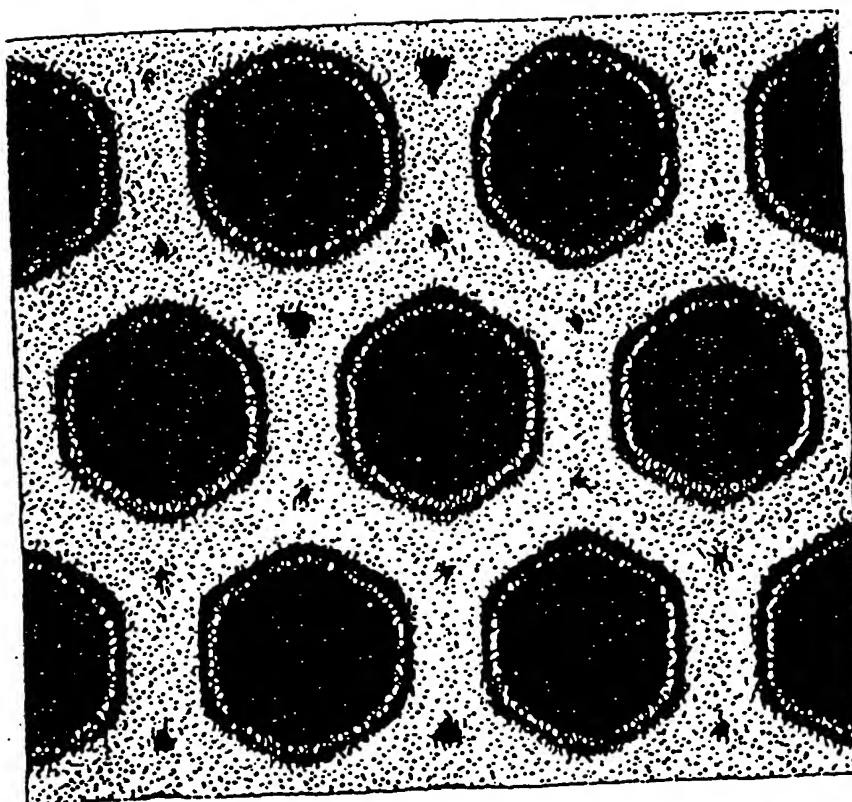


FIGURE 6B

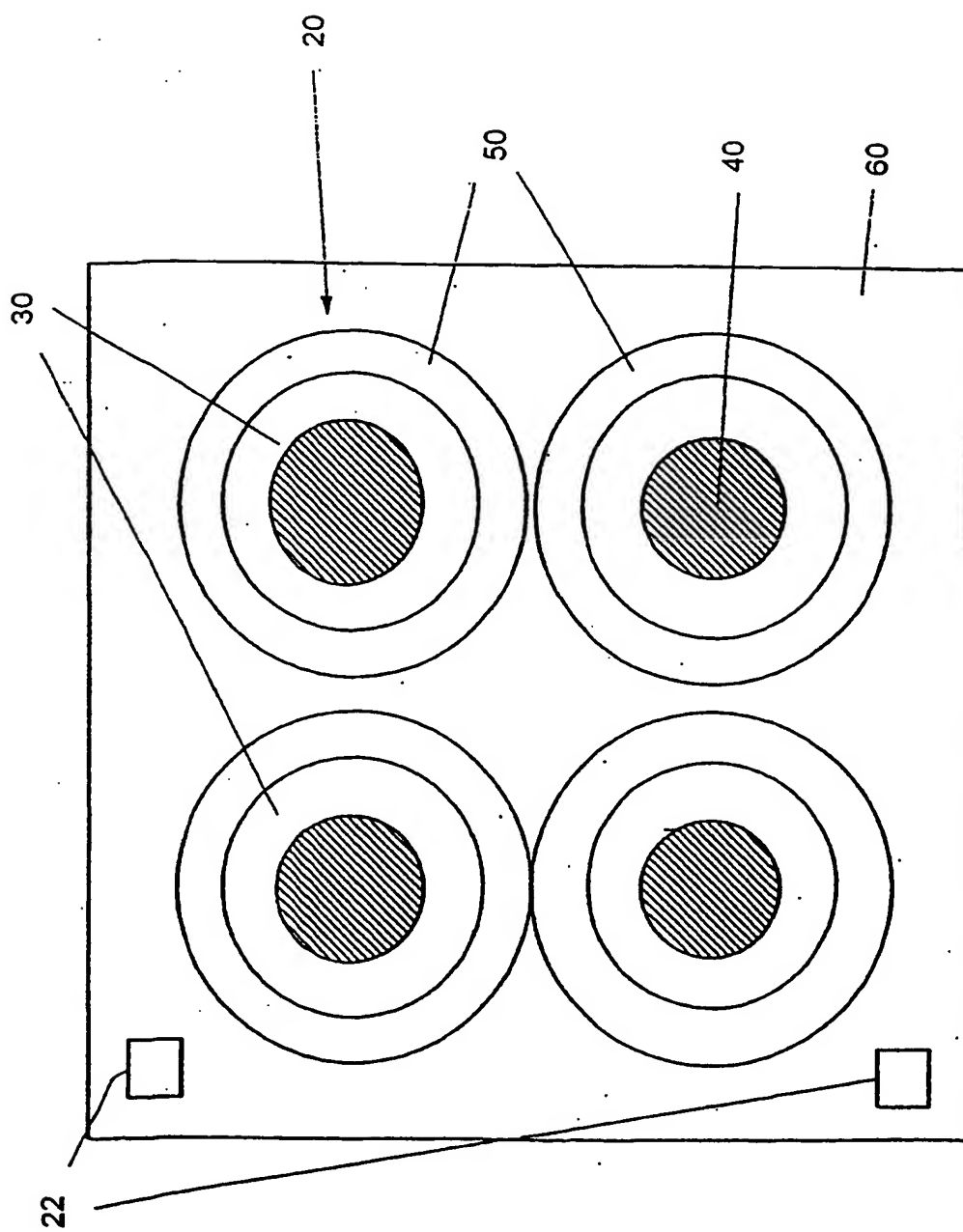


FIGURE 7



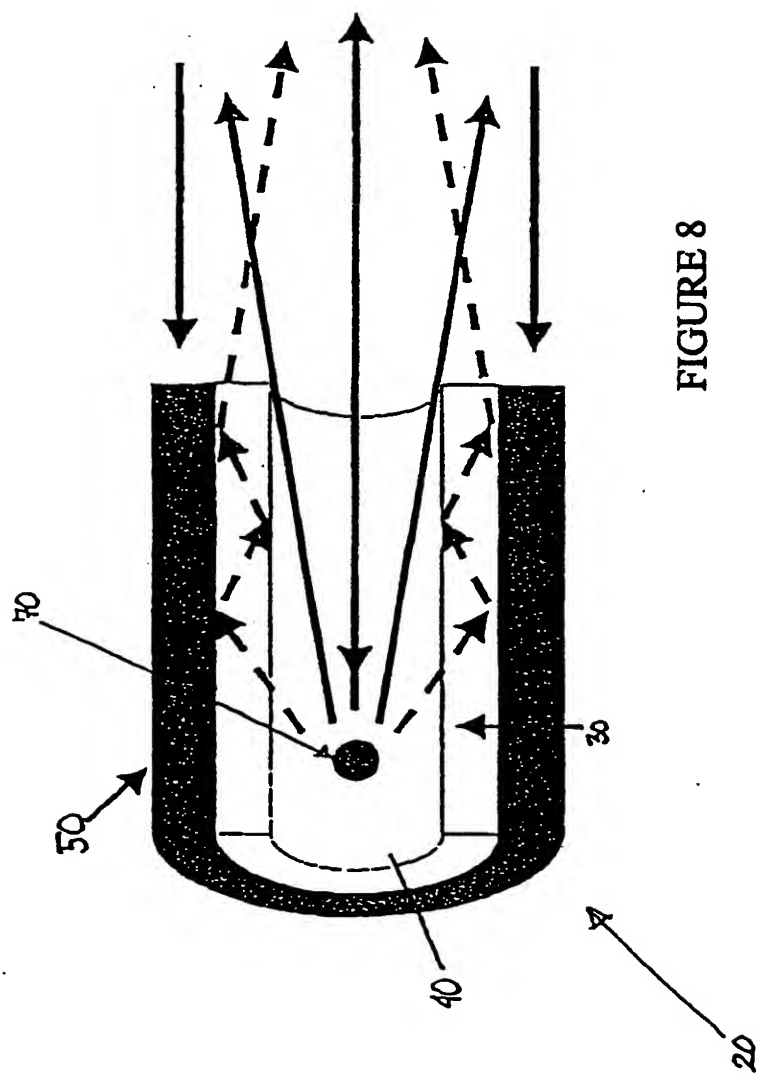


FIGURE 8

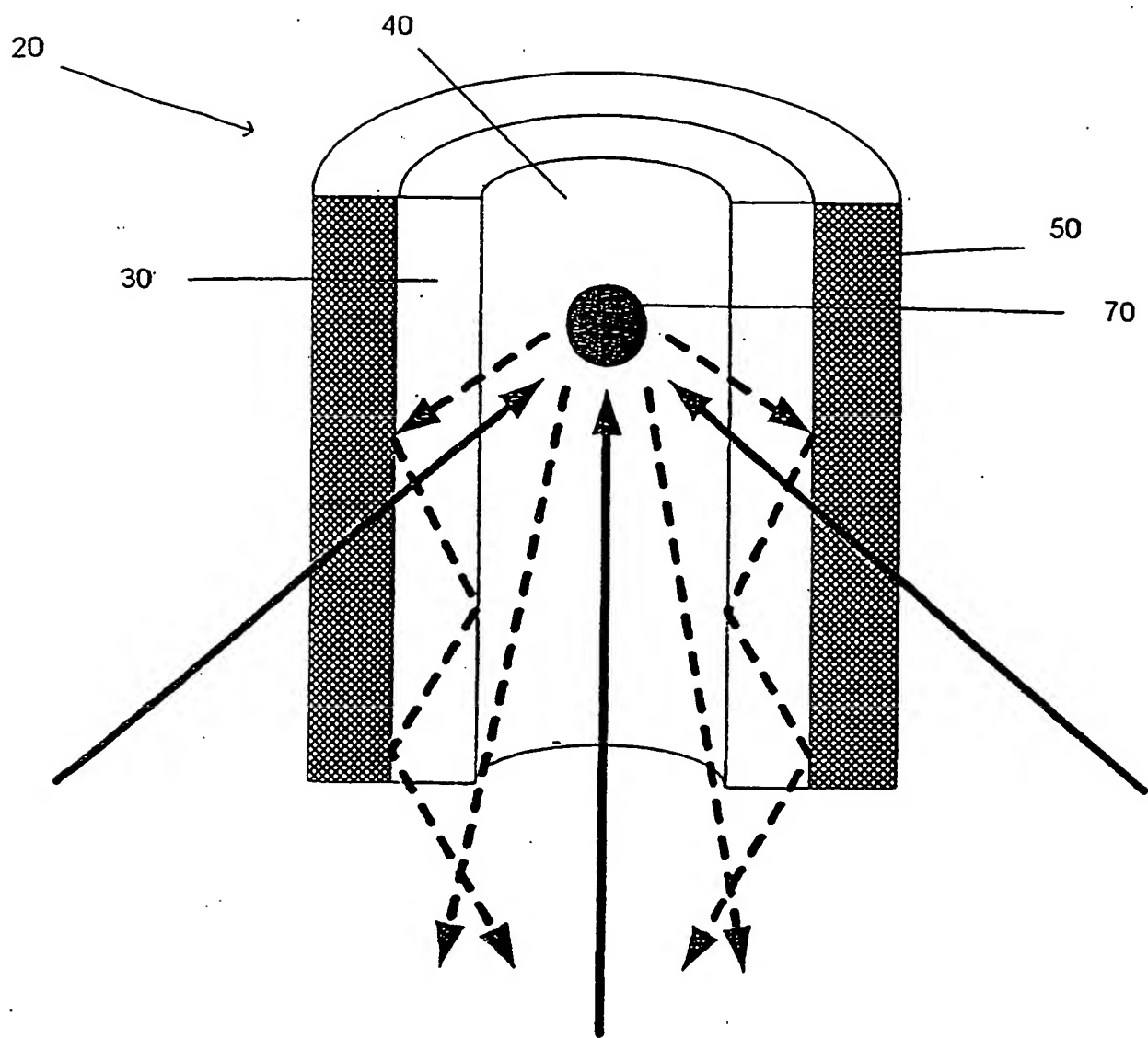
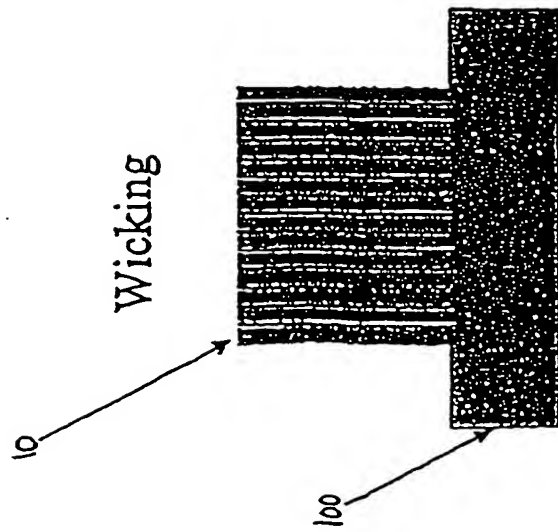
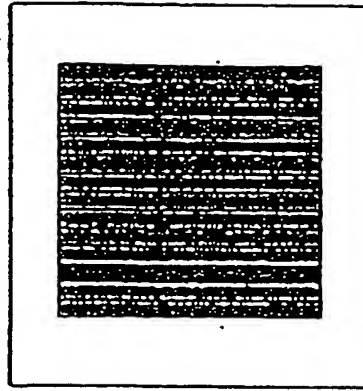


FIGURE 9



Humidified Incubation



Imaging &  
Recovery

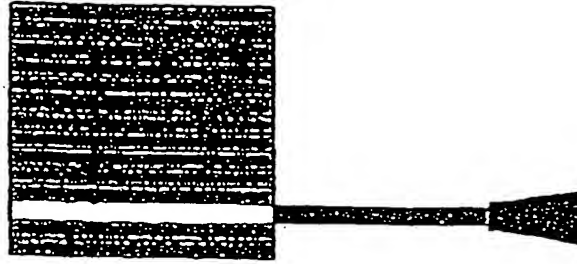


FIGURE 10

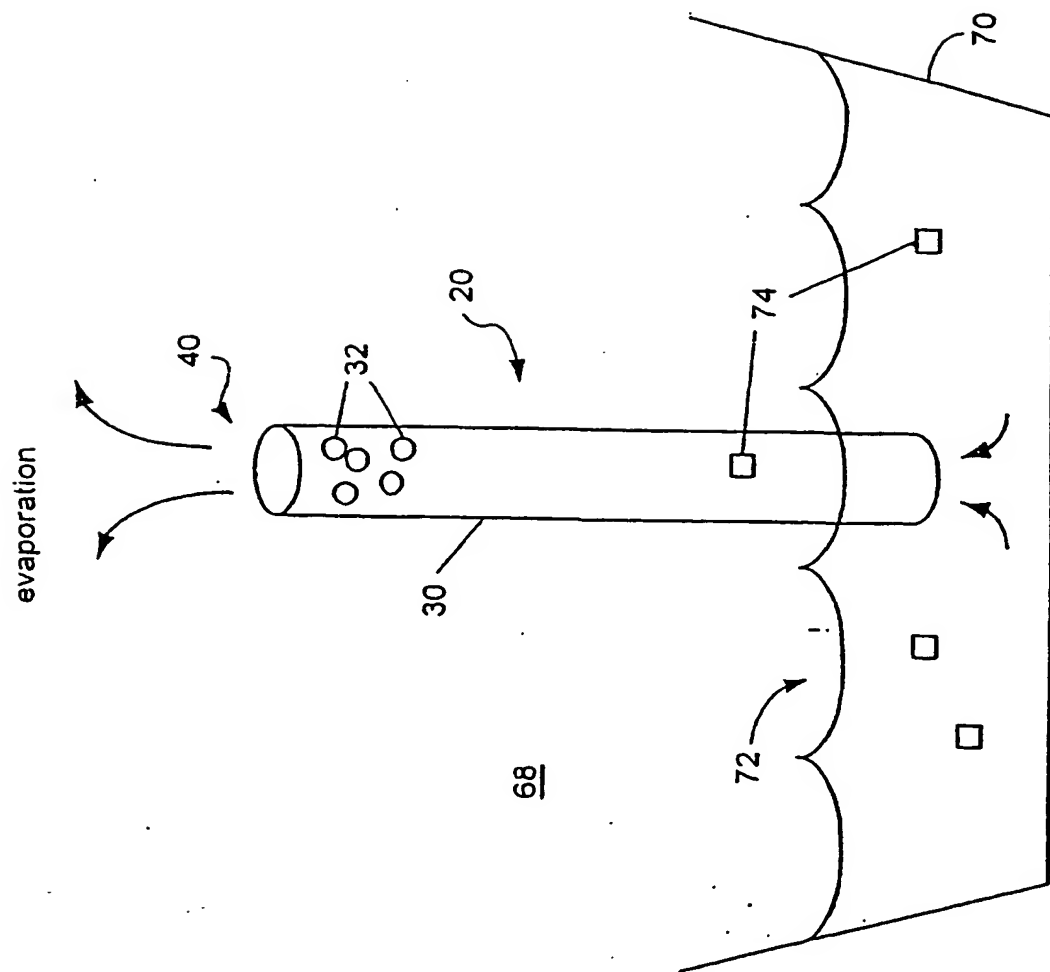


FIGURE 11

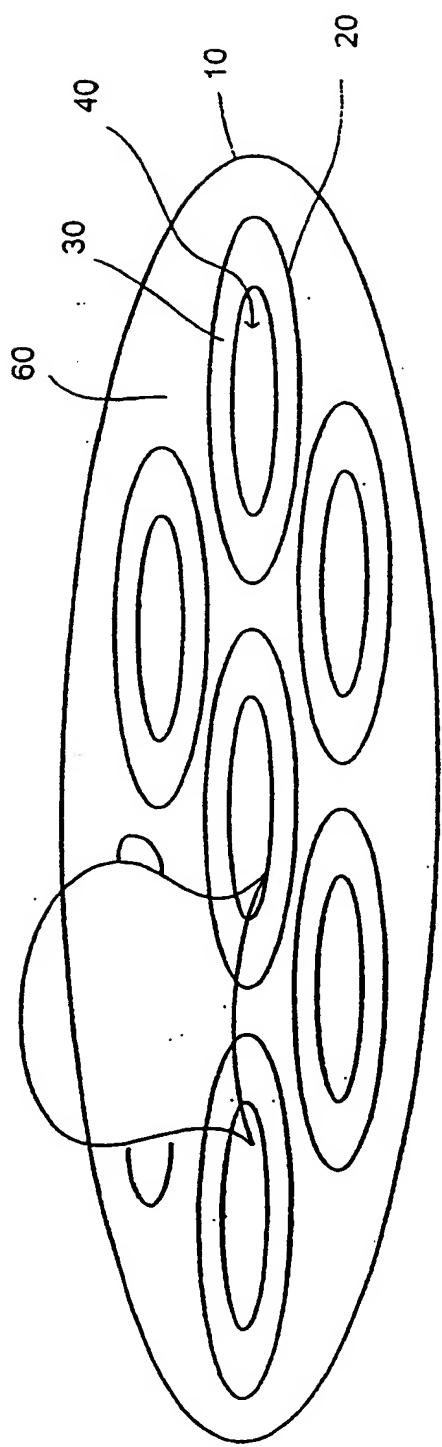


FIGURE 12A

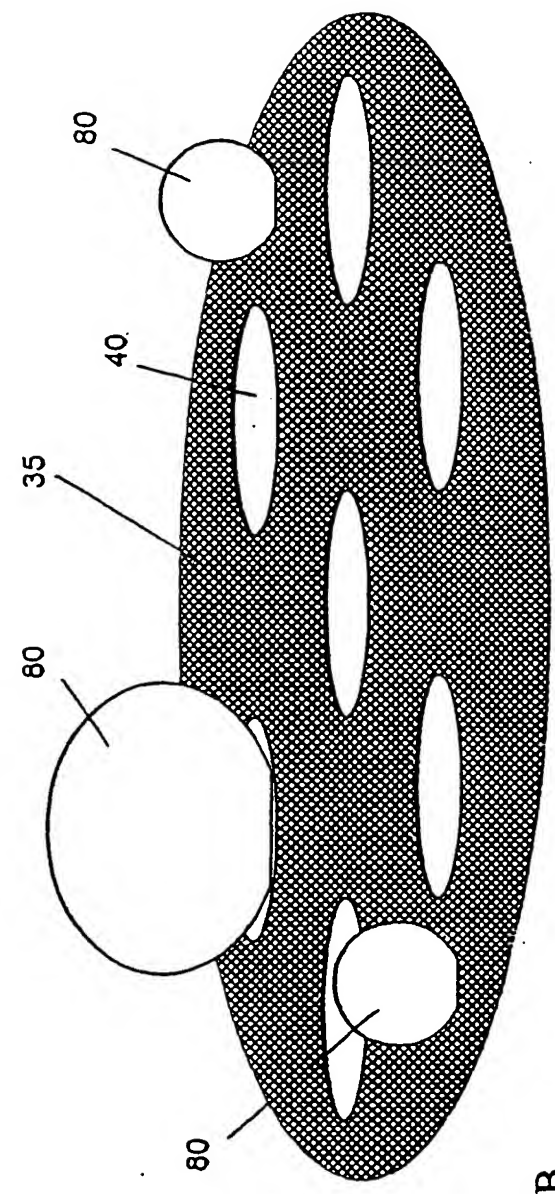


FIGURE 12B

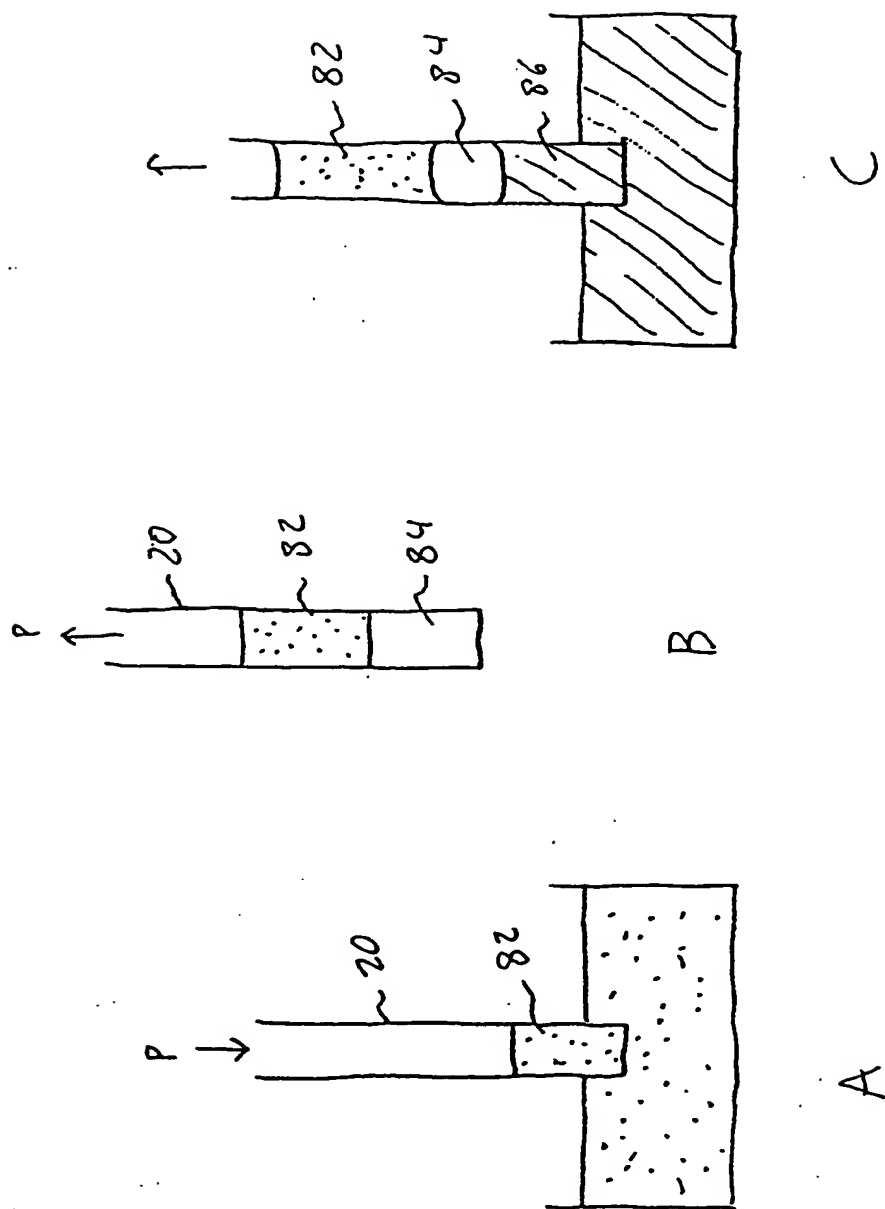


FIGURE 13

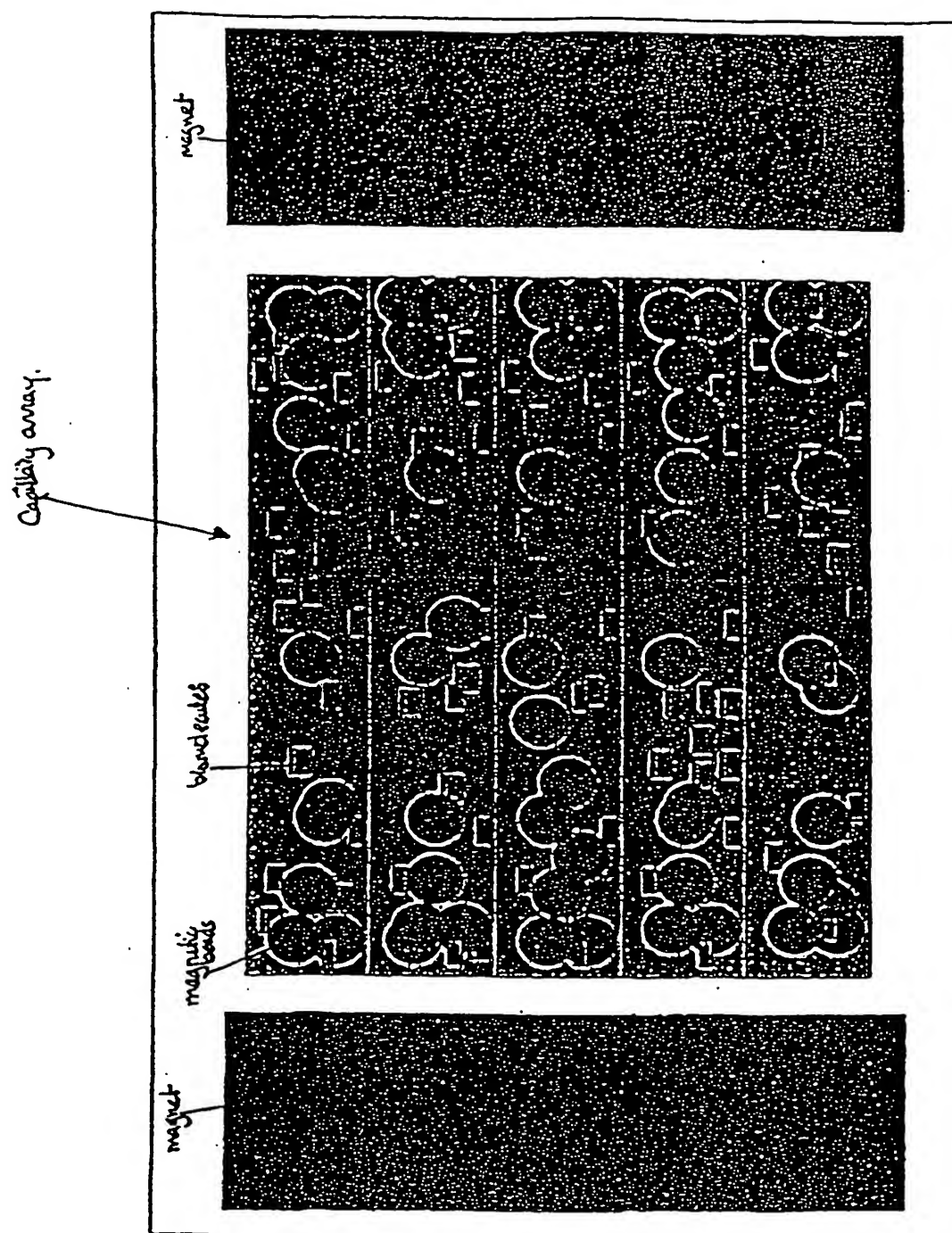


FIGURE 14A

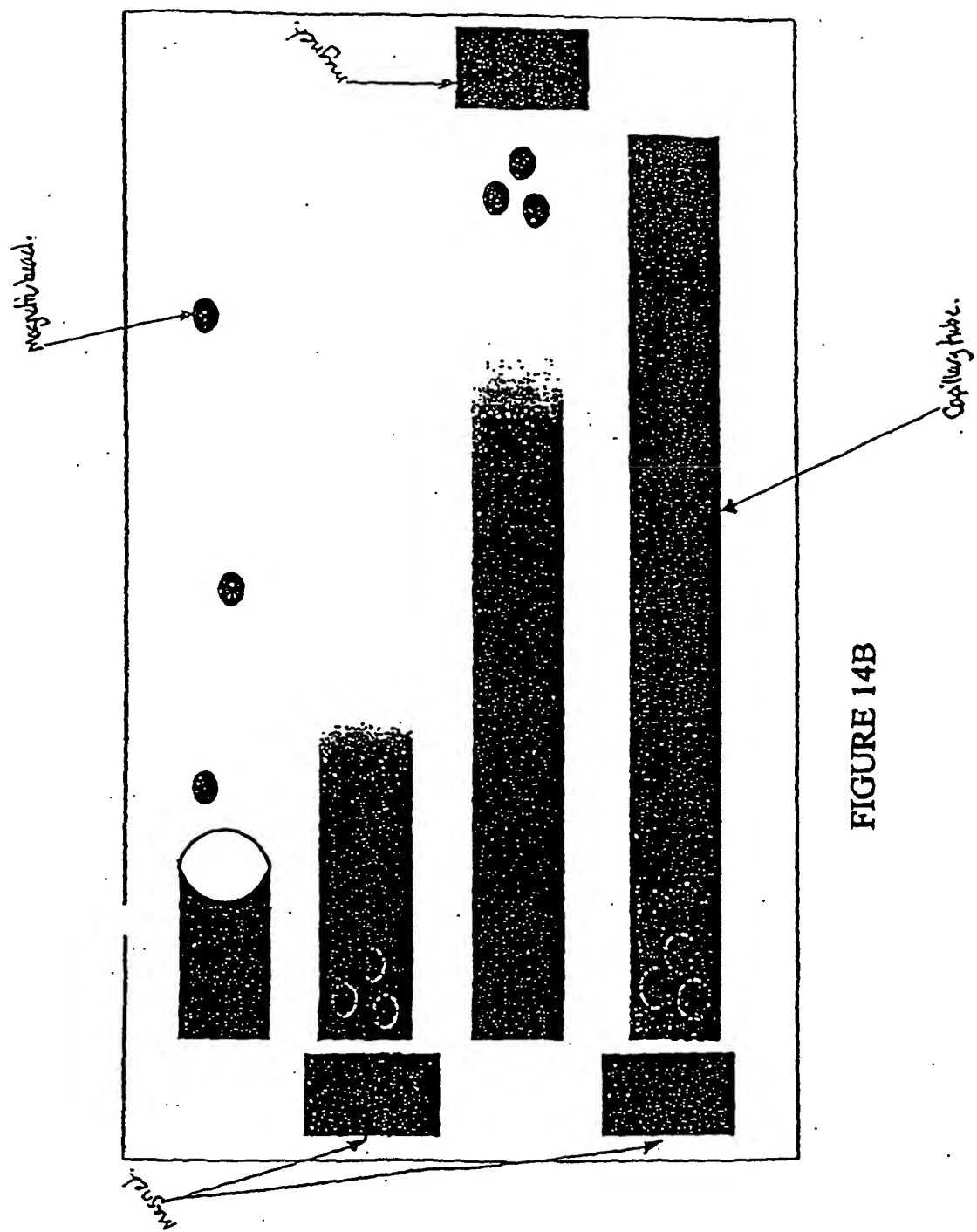


FIGURE 14B



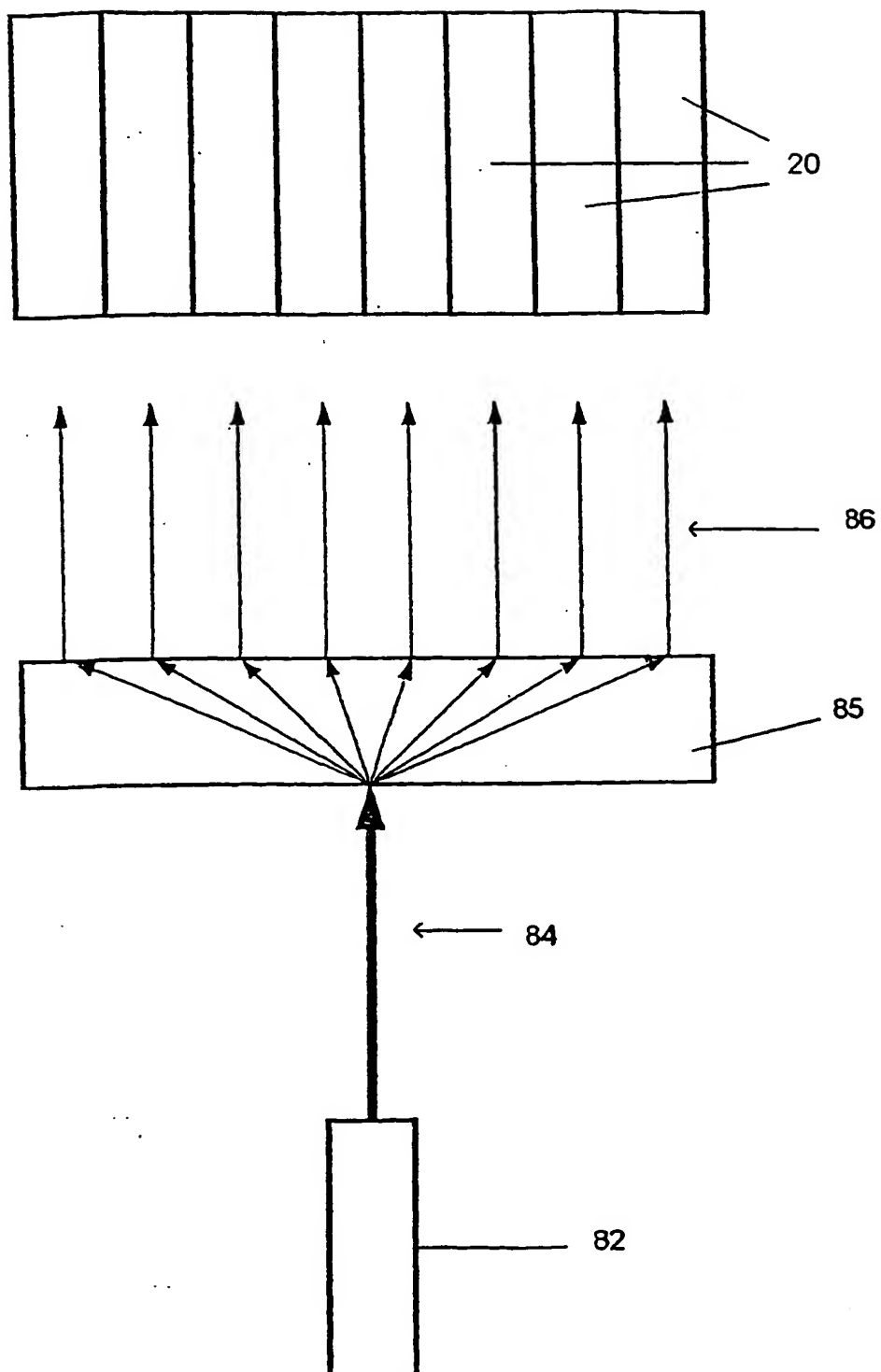


FIGURE 15

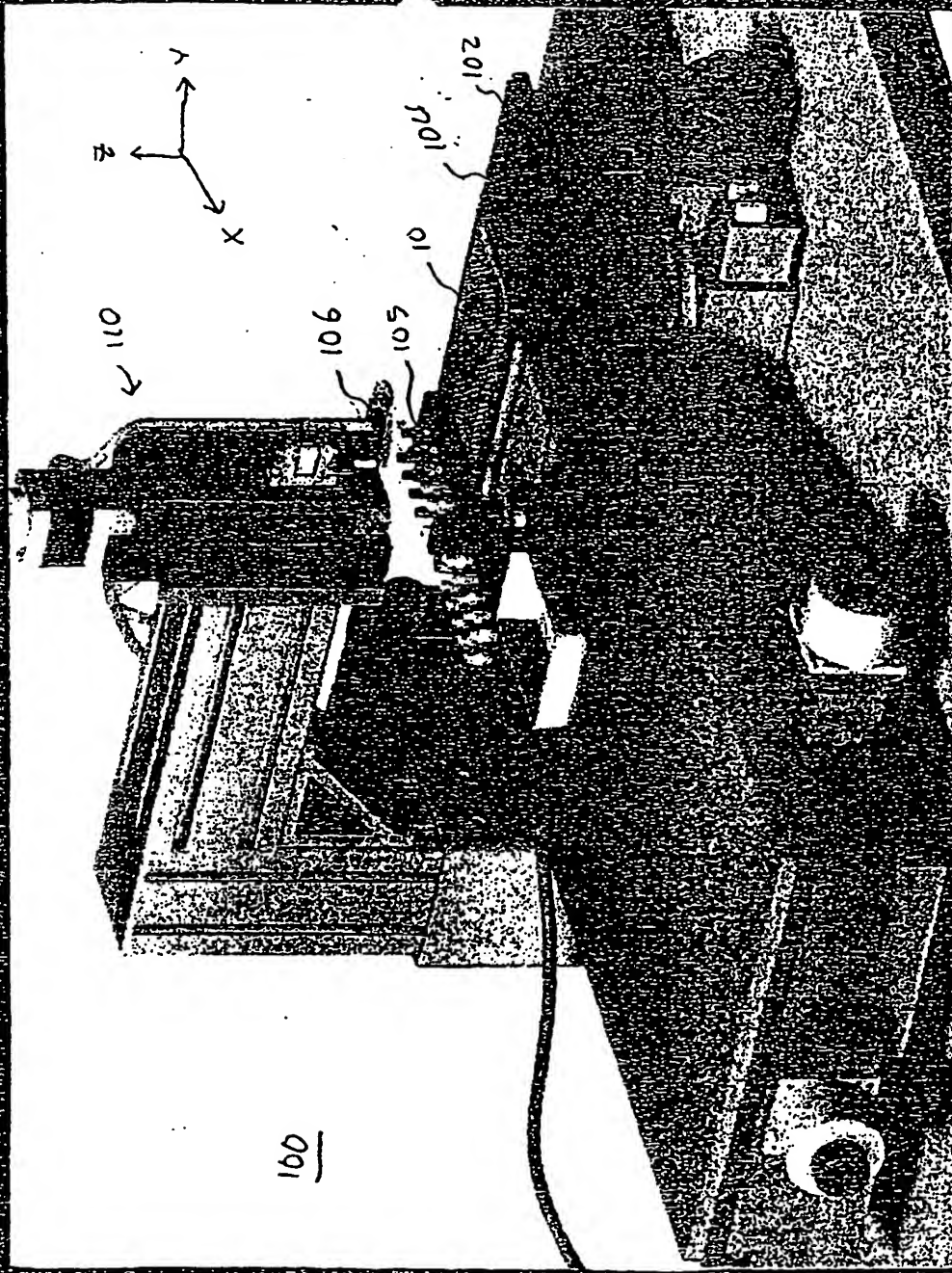


FIGURE 16

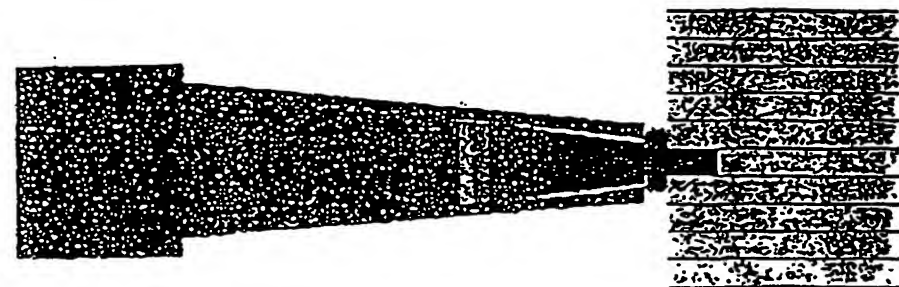


FIGURE 17A

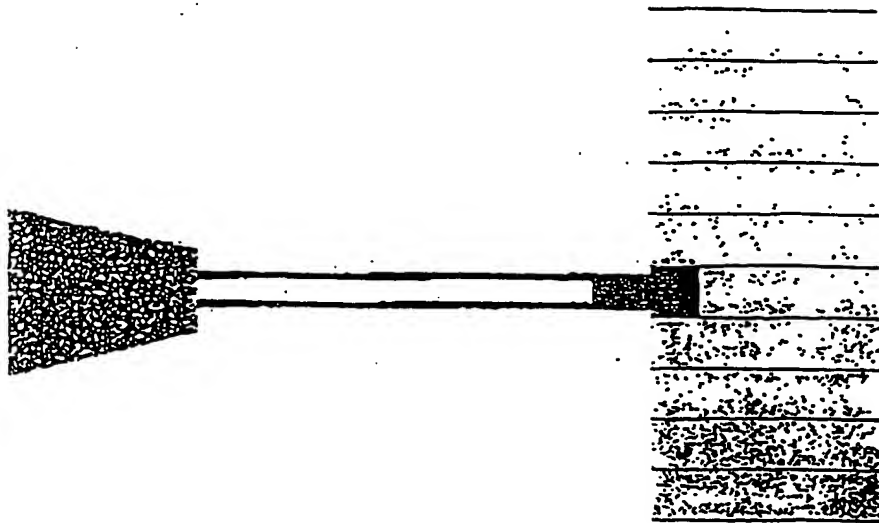


FIGURE 17B

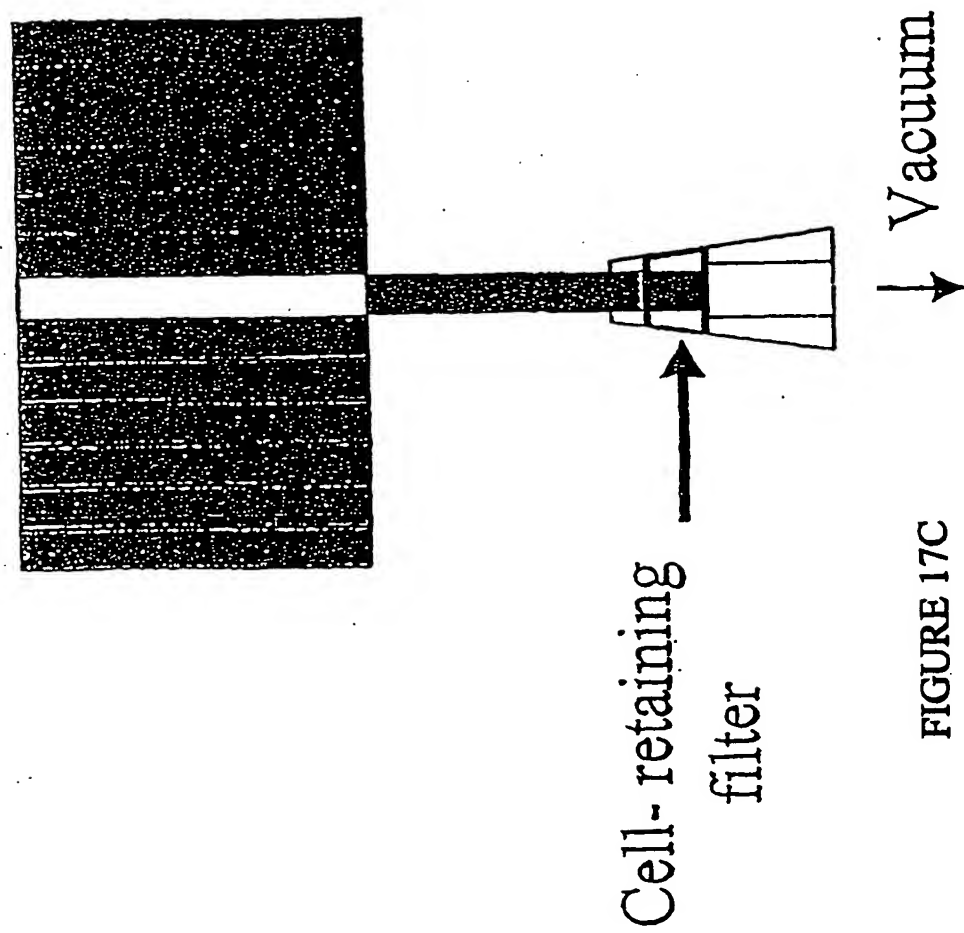


FIGURE 17C

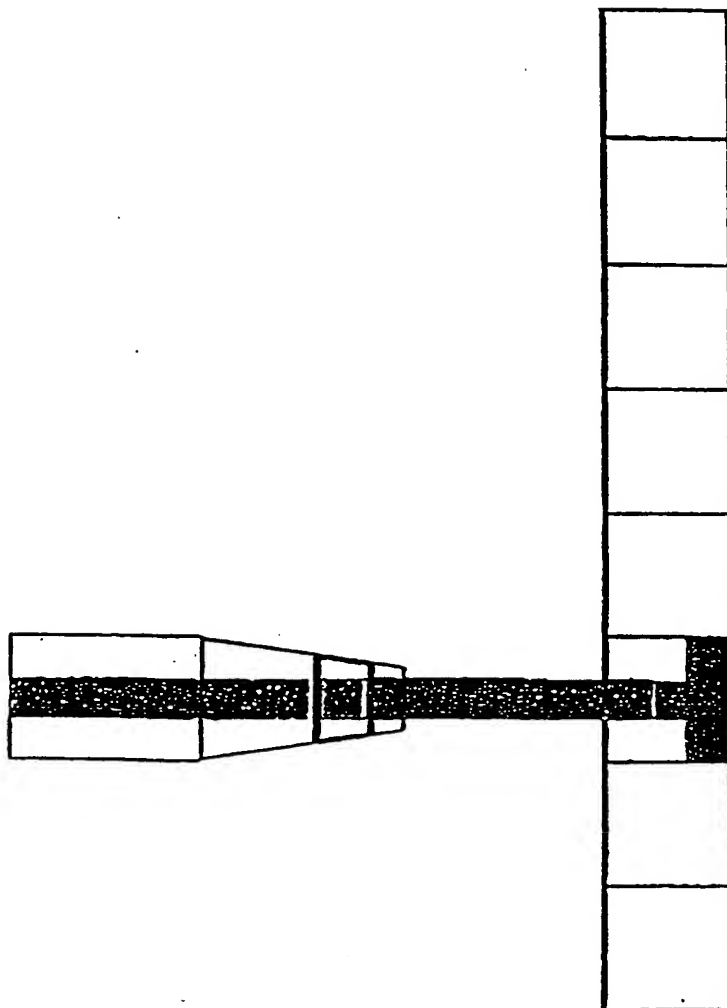


FIGURE 17D

# HTP Enrichment of Low Copy Gene Targets

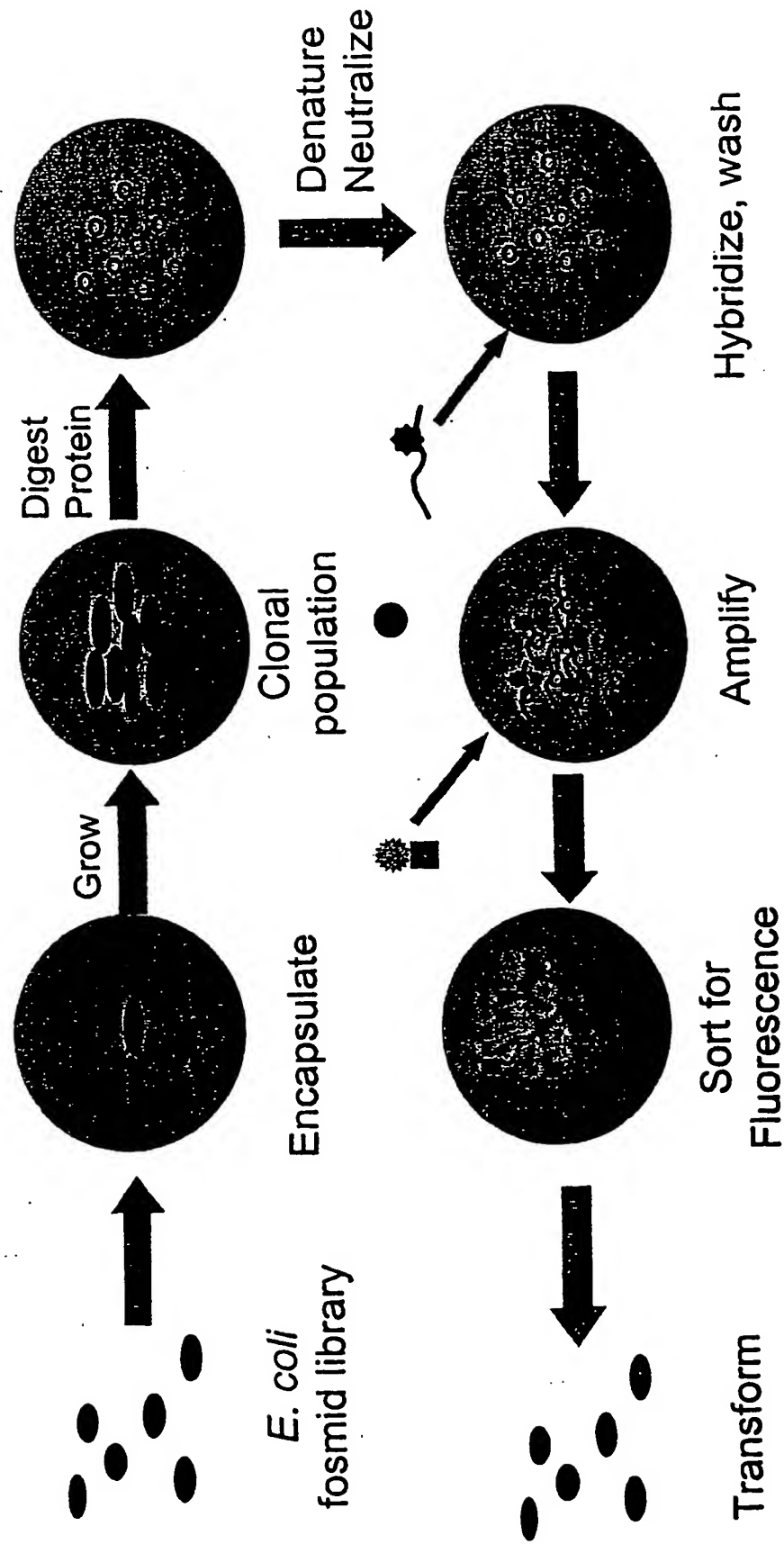
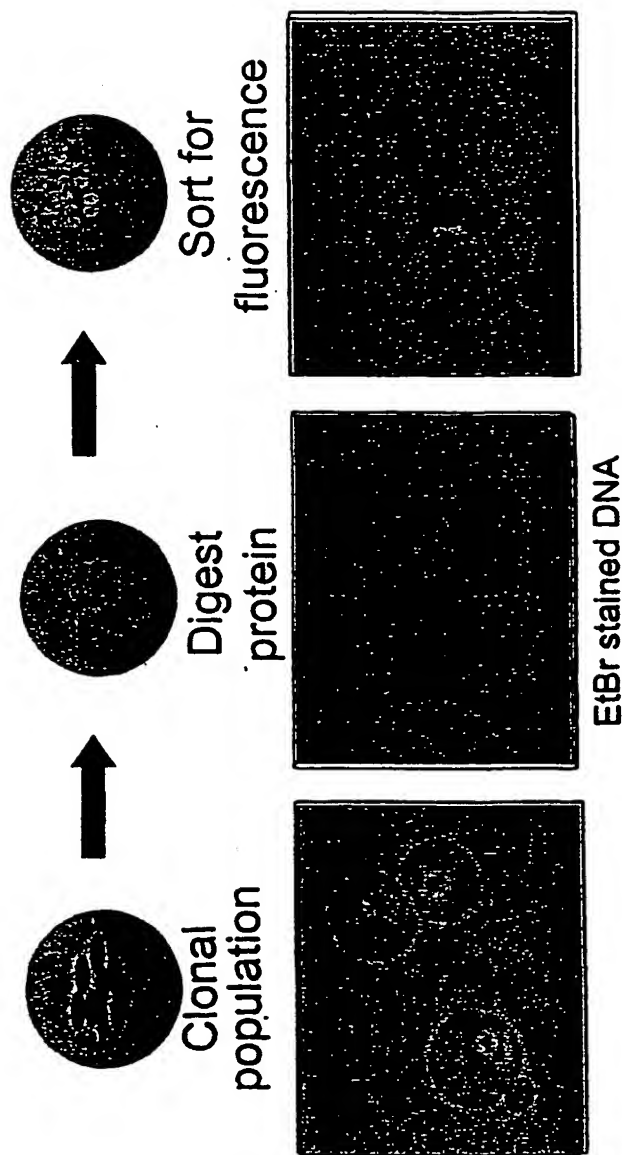


FIGURE 18

# FACS-Biopanning



-STGCTSGLSVGYAVQLIREGSADVVIAGRADTPVSPIVVACFDAIKATTPEHNDPEHA  
VSTGCTSGLDVAGYAFHTIEGRADVCIAGASDSPISPIITMACFDAIKATSPHNDPEHA  
VBTGCTSGLDVAGYAFHTIEGRADVCIAGASDSPISPIITMACFDAIKATSPHNDPEHA  
VBACTSGIDSIGYACELIREGTVDMVAGGVDAPIAPITVACFDATATSDHDTPEHA  
TATACTSGVHNIGHAARIITAYGDADVVMVAGGABKASTPLVGGPAAALSTKNDKPCAA

SRPFDGTRHGFVLAEGCAAMPVLEEEYEAARRGANTYASVGGYATRCCHAYHMTSIKKOGRF  
SRPFDHRTGPFYMGEGAAVLVLEEEHAPARGAHVYCEIQTATFGNAYHMTSITSESL  
SEFEDAPRRGCFVMEGAAVLVLEEEHAPARGADVYCEIQTATFGNAYHMTSITSESL  
SEFDSRBRGCFVMEGAAVLVLEEEAARVRGANTYAEIUGYASRGNAYHMTGIRADGAE  
SRPMDKERDGFVLJQAGMLVLESEYERAKKRGANTYAEIUGYASRGNAYHMTSITSESL

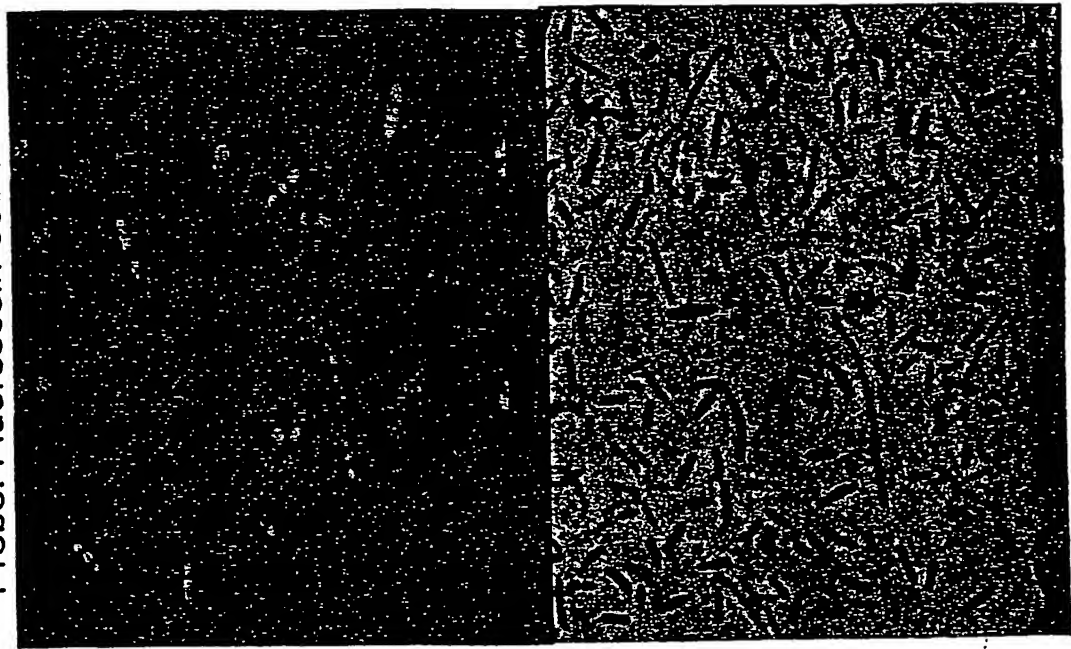
MAEATRAALDEA  
MAPATOVATDIA  
MARALUTALDIA  
MAAATTAALDEA  
AAJAMARALKDA

Alignment of Environmental  
PKS Sequence

FIG. 19

# Whole Cell Hybridization

Library 557 + 95ES11 clone  
Probe: Fluorescein-95ES11

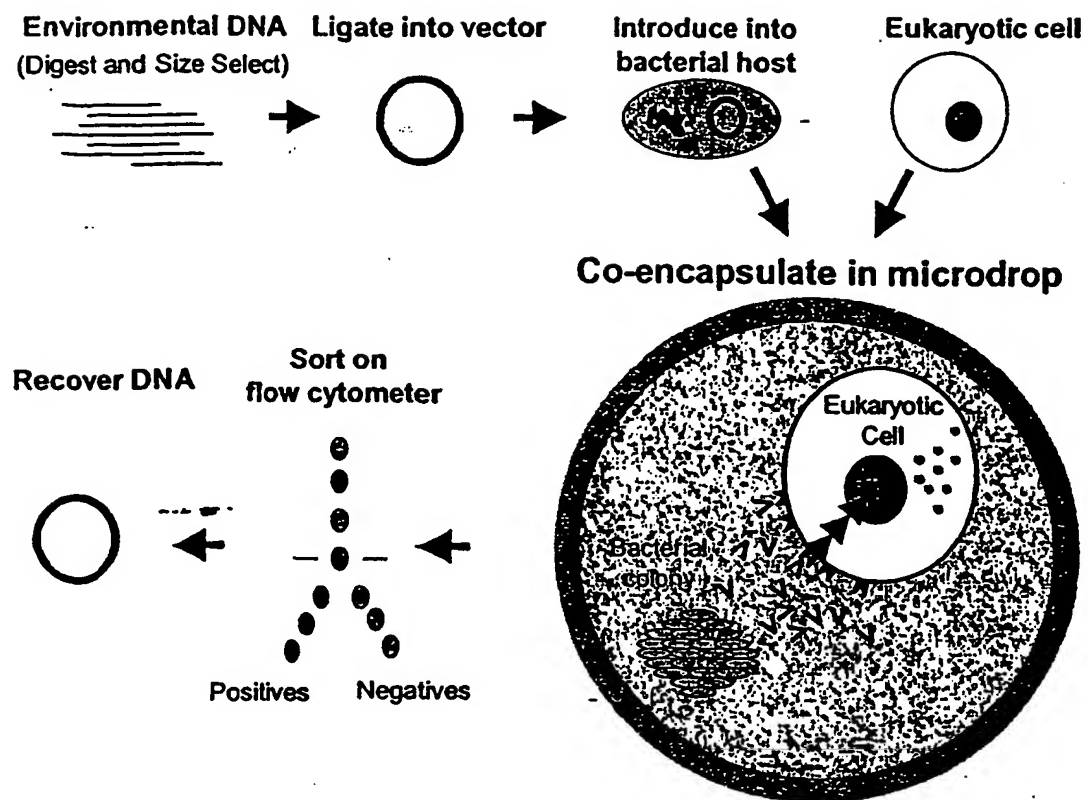


Fluorescein  
Excitation

White  
light

FIG. 20





**FIG. 21**

# Whole Cell Hybridization Protocol

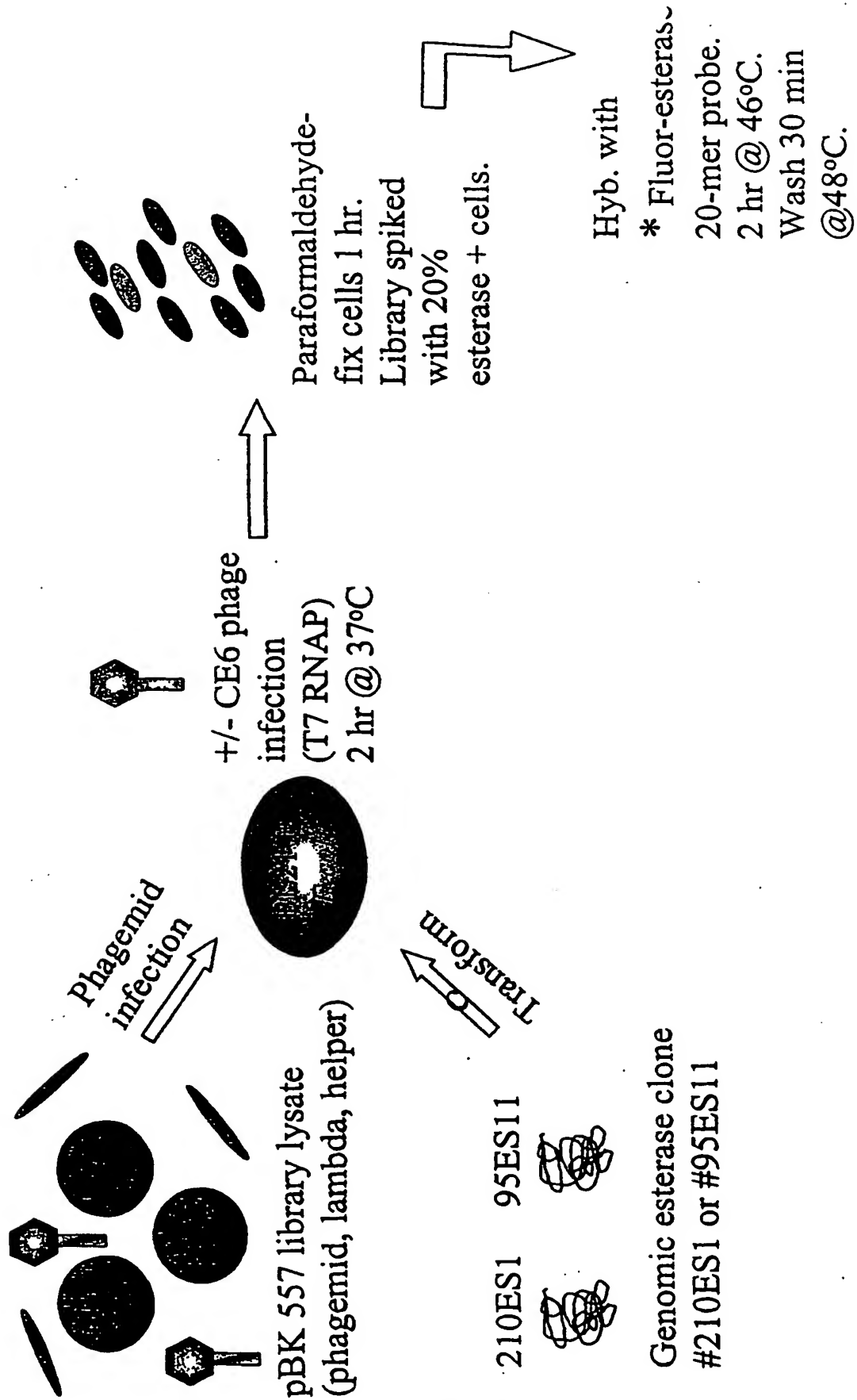


FIG. 22

# T7 RNA Polymerase Expression System

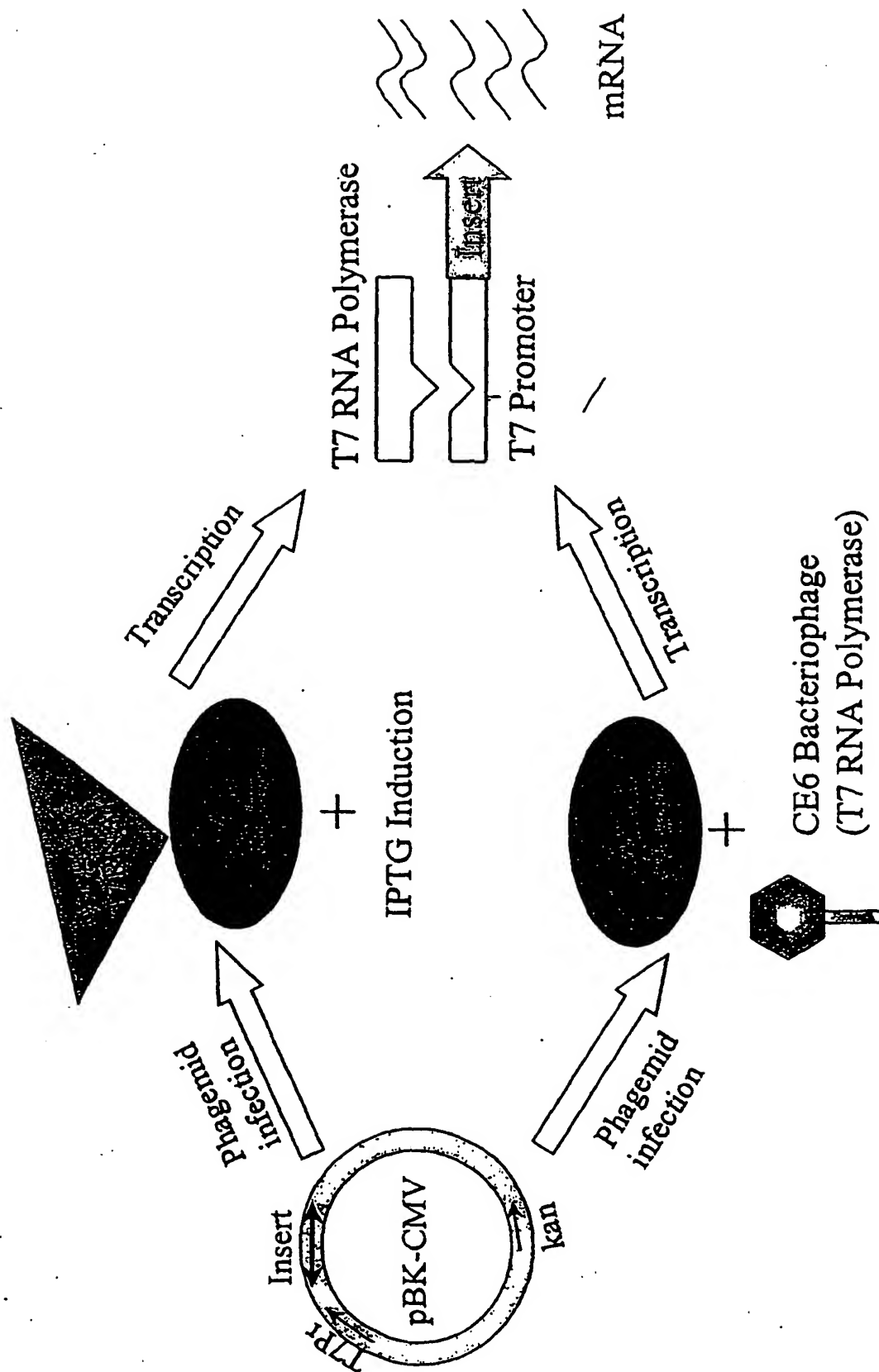


FIG. 23

Figure 24

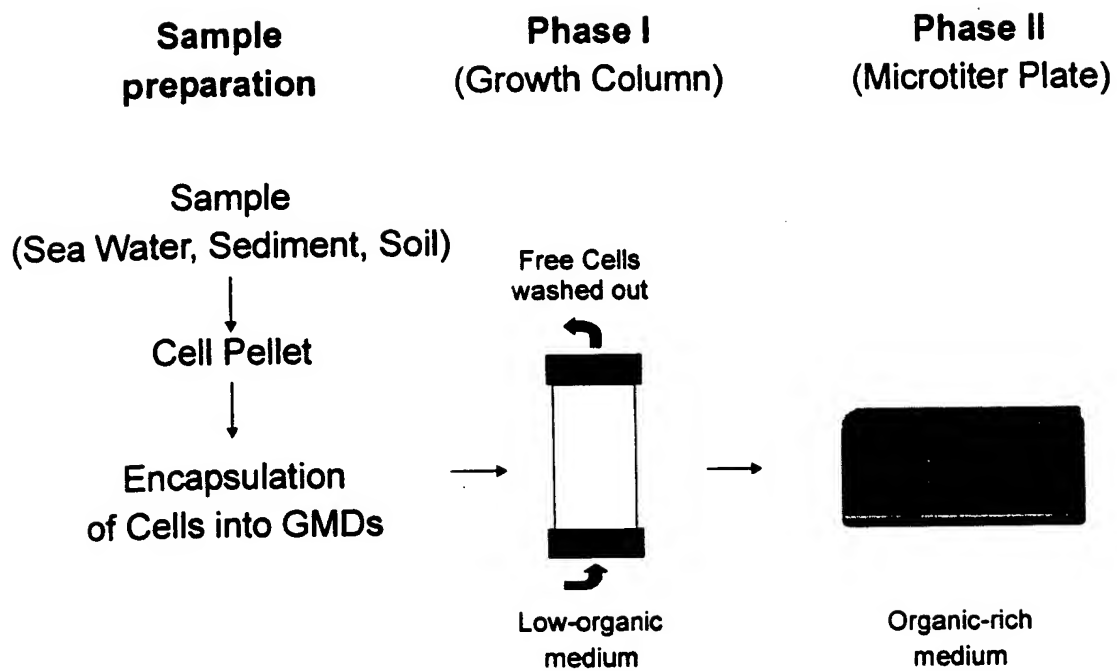


Fig. 24

Figure 25

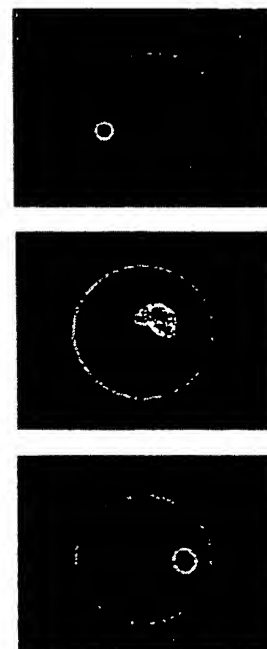
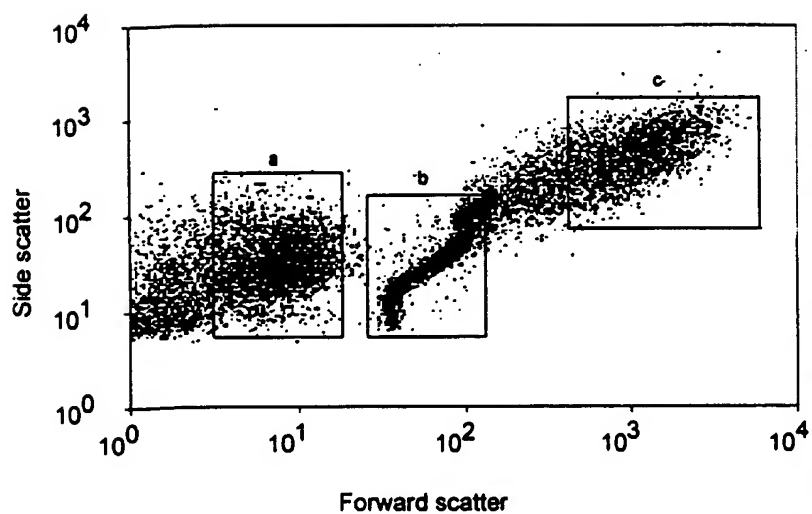


Fig. 25

Figure 26

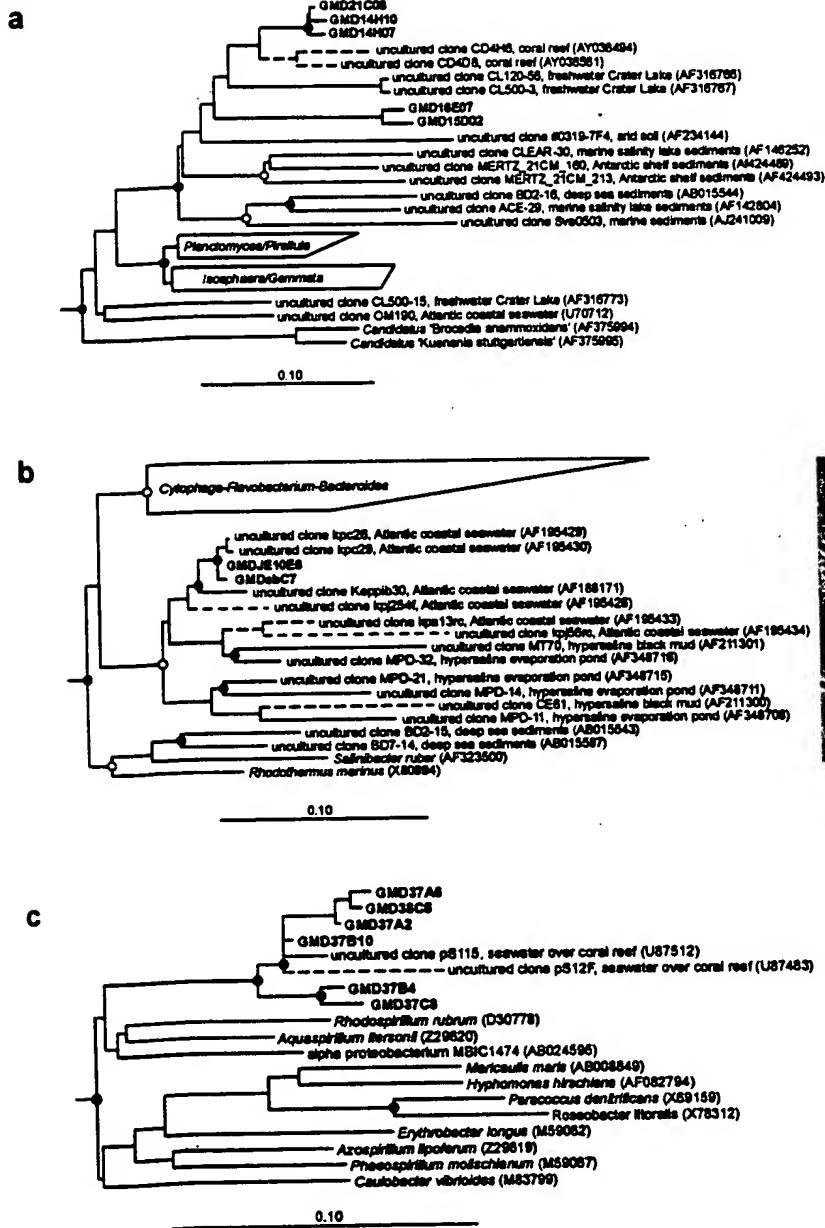


Fig. 26